

CLAIMS

1. A communication device comprising:

wired communication means for providing/receiving data via physical connection means to/from a mounted host equipment;

short distance radio communication means for transmitting/receiving data to/from an external communication network via a short distance radio communication network;

storage means in which communication setting information as information related to the communication network is stored; and

communication control means for setting a connection relation with the communication network via the short distance radio communication network on the basis of the communication setting information stored in the storage means, and controlling transmission/reception of data between the communication network and the host equipment.

2. The communication device as claimed in claim 1, wherein individual information as information related to a user operating the host equipment is stored in the storage means, and

wherein the communication control means sets connection between the host equipment and the communication network by using the communication setting information stored in the storage means and the individual information stored in the

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wherein in accordance with the result of discrimination to the effect that connection between the host equipment and the communication network is set by using at least one protocol stored in the storage means and that transmission/reception of data is carried out between the host equipment and the communication network, the

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wherein the communication control means carries out control so as to transmit/receive the data stored in the storage means to/from the communication network.

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8. A communication method for a communication device having a wired communication section for supplying/receiving data to/from a host equipment via

using communication setting information as information related to a communication network outside the short distance radio communication network, stored in the communication device, so as to set a connection relation between the radio control device and the communication network via the short distance radio communication network; and

9. The communication method as claimed in claim 8, wherein a connection relation between the host equipment and the communication network is set by using individual information stored in the communication device, which is information related to a user operating the host equipment.

10. The communication method as claimed in claim 8, wherein connection between the communication device and the communication network is set by using at least one protocol of PPP (point to point protocol), IP (Internet protocol), and TCP (transport

12. The communication method as claimed in claim 9, wherein it is discriminated whether the individual information is usable or not by using password information

wherein a connection relation between the communication device and the communication network is set on the basis of the result of discrimination.

wherein transmission/reception of the stored data is carried out between the communication device and the communication network.

wherein transmission/reception of data is carried out between the public communication network and the host equipment.

wired communication means for providing/receiving data via physical contact

means to/from a mounted host equipment;

storage means in which communication setting information as information related to the communication network is stored; and

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wherein the wired communication means is arranged on one side of the communication control means, and the short distance radio communication means is arranged on the other side of the communication control means.

wherein the short distance radio communication means is arranged on one end of the casing, and the wired communication means is arranged on the other end of the casing.

17. The communication device as claimed in claim 16, wherein the thickness of the casing is greater on the other end than on the one end.

18. A communication device comprising, in a casing constituted to have a predetermined outer dimension that allows free attachment/detachment of at least a part thereof to/from a recessed connection part provided in a host equipment:

wired communication means for providing/receiving data via physical contact

means to/from the mounted host equipment;

communication control means for setting a connection relation with the communication network via the short distance radio communication network on the basis of the communication setting information stored in the storage means, and controlling transmission/reception of data between the communication network and the host equipment.

wherein the short distance radio communication means is arranged on one end of the casing, and the wired communication means is arranged on the other end of the casing.

20. The communication device as claimed in claim 19, wherein the casing is connected to the recessed connection part of the host equipment, with the other end exposed to the outside from the host equipment.

21. The communication device as claimed in claim 19, wherein the short distance radio communication means includes a chip antenna shaped in a plate-like form and carries out transmission/reception of data to/from the short distance radio communication network via the chip antenna.

22. The communication device as claimed in claim 21, wherein the chip antenna is housed in the other end of the casing having a protrusion with its thickness greater than the other end than the one end.

23. A communication terminal device comprising:

public communication connection means operated by a user so as to be connected to a public communication network for providing/receiving data;

short distance radio communication means for transmitting/receiving data to/from another equipment included in a short distance radio communication network via the short distance radio communication network;

communication setting information storage means in which communication setting information as information related to an external communication network to be connected via the public communication network is stored;

communication connection setting means for setting connection with the communication network via the public communication network by using the communication setting information stored in the communication setting information storage means; and

control means for controlling to carry out transmission/reception of data between said another equipment and the communication network by using a connection relation with the communication network set by the communication connection setting means.

24. The communication terminal device as claimed in claim 23, further comprising

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wherein the communication connection setting means sets connection between the short distance radio communication means and the communication network by using the communication setting information stored in the communication setting information storage means and the individual information stored in the individual information storage means.

wherein the communication connection setting means sets connection with the communication network via the public communication network by using at least one protocol stored in the communication setting information storage means, and the control means carries out control so as to transmit/receive data between said another equipment and the communication network by using at least one protocol stored in the communication setting information storage means.

26. The communication terminal device as claimed in claim 25, further comprising discrimination means for discriminating whether to set connection between the short distance radio communication means and the communication network by using at least one protocol of PPP (point to point protocol), IP (Internet protocol), and TCP

(transport control protocol) stored in another equipment and carry out transmission/reception of data between said another equipment and the communication network, or to set connection between the short distance radio communication means and the communication network by using at least one protocol stored in the communication setting information storage means and carry out transmission/reception of data between said another equipment and the communication network,

wherein in accordance with the result of discrimination to the effect that connection between the short distance radio communication means and the communication network is set by using at least one protocol stored in the communication setting information storage means and that transmission/reception of data is carried out between said another equipment and the communication network, the communication connection setting means sets connection between the short distance radio communication means and the communication network by using at least one protocol stored in the communication setting information storage means, and the control means controls transmission/reception of data between said another equipment and the communication network by using at least one protocol stored in the communication setting information storage means.

27. The communication terminal device as claimed in claim 24, further comprising password processing means for discriminating whether the individual information stored in the individual information storage means is usable or not by using a password inputted from said another equipment,

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29. The communication terminal device as claimed in claim 28, wherein the control means carries out processing to set connection again, in response to discrimination to the effect that the communication connection setting means cannot establish setting of connection with the communication network, and transmits/receives the data stored in the data storage means to/from the communication network.